

ENFORCER Products A Division of Acuity Specialty Products Group, inc. P.O. Box 1060 Cartersville, GA 30120 1-888-805-HELP www.zepcommercial.com

Material Safety Data Sheet and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name Calcium, Lime & Rust Stain Remover

Product Code

HDRUST128-32 CNRUST32-128

04/26/05 Date of issue

Supersedes 01/31/03

HMIS

Reactivity

Personal

Protection

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Emergency Telephone

For a Medical Emergency:

INFOTRAC

Numbers (877) 541-2016 (Toll Free - Calls Recorded)

For a Transportation Emergency:

CHEMTREC

(800) 424-9300 (Toll Free - Calls Recorded)

Printing Date:

Prepared by

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Section 2. Composition, Information on Ingredic Name of Hazardous Ingredients	ents CAS#	;% by Weight	Exposure Limits
HYDROCHLORIC ACID; muriatic acid; hydrogen chloride; HCl	7647-01-0	I = 5	ACGIH TLV/OSHA PEL (United States). CEIL: 5 ppm 8 hour(s). OSHA PEL (United States). CEIL: 7 mg/m ³ 8 hour(s).
HYDROXYACETIC ACID; glycolic acid; hydroxyethanoic acid	79-14-1	1 - 5	Not established
SULFAMIC ACID; amidosulfonic acid	5329-14-6	1 - 5	Not established

Section 3. Hazards Identification

Acute Effects Routes of Entry Dermal contact. Eye contact. Inhalation. Ingestion.

Skin Hazardous in case of skin contact (corrosive). Skin contact may produce burns. Skin

inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering,

Hazardous in case of eye contact (corrosive). Direct contact with the eyes can cause irreversible Eyes damage including blindness.

Inhalation Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Over-exposure by inhalation may cause respiratory irritation.

ingestion Harmful if swallowed. May cause burns to mouth, throat and stomach.

Carcinogenic Chronic Effects

Effects

Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

The substance may be toxic to kidneys, liver, gastrointestinal tract. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eve Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes. Get medical attention immediately.

Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get

medical attention immediately.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. If irritation persists, get medical attention,

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to Ingestion

an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention

immediately.

Protective Clothing (Pictograms)

Section 5. Fire Fighting Measures

Not applicable. Flash Point

Flammable Limits Not applicable.

Non combustible. Flammability

May emit toxic fumes under fire conditions. Fire Hazard

Use an extinguishing agent suitable for surrounding fires. Do not release Fire-Fighting Procedures

runoff from fire to sewers or waterways.

Section 6. Accidental Release Measures

Put on appropriate personal protective equipment (see Section 8). Dilute with water and mop up, or absorb Spill Clean up

with an inert dry material and place in an appropriate waste disposal container.

Section 7. Handling and Storage

Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapors or spray mists. Use only with Handling

adequate ventilation. Wash thoroughly after handling. Do not use with other products. Do not reuse product

container. Observe label precautions.

Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep out of the reach of children. Storage

Section 8. Exposure Controls, Personal Protection

Personal Protection

Splash goggles. Face shield.

Wear appropriate protective clothing to prevent skin contact. Body

Recommended; Neoprene gloves, Nitrile gloves, Rubber gloves, Wear apron or coverall if potential for exposure to splashes.

Respiratory Use with adequate ventilation. A respirator is not needed under normal and intended conditions of product use.

Section 9. Physical and Chemical Properties

Physical State **Color** Clear. Colorless to light yellow. Liquid.

<1 [Acidic.] Odor Sour, Acidic. рΗ **Boiling Point** 100°C (212°F) Vapor Pressure Not determined. Vapor Density Not determined. Specific Gravity 1.068 (Water = 1) Evaporation Rate Not determined. Solubility Easily soluble in cold water, hot water.

VOC (Consumer) 0 (g/l).

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Reactive with oxidizing agents, organic materials., metals, alkalis. Do not use with other products,

Hazardous Polymerization Will not occur. Hazardous Decomposition Not applicable.

Products

Eyes

Section 11. Toxicological Information

Toxicity to Animals Hydrochloric Acid:

> ORAL (LD50): Acute: 900 mg/kg [Rabbit]. **VAPOR** (LC50): Acute: 3124 ppm 1 hour(s) [Rat].

Hydroxyacetic acid:

ORAL (LD50): Acute: 1938 mg/kg [Rat.].

Sulfamic acid:

ORAL (LD50): Acute: 3160 mg/kg [Rat.].

Section 12. Ecological Information **Ecotoxicity**

Not available. Biodegradable/OECD Not available.

Section 13, Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control

regulations.

Waste Stream Code: D002

Classification: - (Hazardous waste.)

Origin: - (RCRA waste.)

Consult your local or regional authorities.

Product Code HDRUST128-3	2 Material Safety Data Sheet	Product Name Calcium, Lime & Rust Stain Remover	
Section 14. Transport inf	ormation		
Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s.(Hydrochloric acid, Sulfamic acid) or Consumer Commodity ORM-D in limited quantities		
DOT Classification UN number	Class 8: Corrosive liquid. UN3264		
TDG Classification	TDG Class 8: Corrosive liquid; 9.2: Environmentally	hazardous material.	
Section 15. Regulatory In	formation		
	SARA 313 toxic chemical notification and release rep No products were found.	porting:	
	Clean Water Act (CWA) 311: Hydrochloric Acid (RQ		
	Clean air act (CAA) 112 regulated toxic substances; ?	No products were found.	
State Regulations	California prop. 65; No products were found.		
WHMIS (Canada)	Class D-1B: Material causing immediate and serious toxic effects (TOXIC). Class D-2B: Material causing other toxic effects (TOXIC). Class E: Corrosive liquid.		

Section 16. Other Information

To the best of our knowledge, the information contained herein is occurate. However, neither the above named supplier nor any of its subsidiaries assumes any

liability whatsoever for the tusturacy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although vertain hazards are described herein, we cannot guarantee that these are the any hazards that exist.